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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/757,679	01/14/2004	Zhaohui Gao	IBMS.073PA(0514)	4112
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DAVID W. LYNCH CHAMBLISS, BAHNER & STOPHEL 1000 TALLAN SQUARE-S TWO UNION SQUARE CHATTANOOGA, TN 37402			EXAMINER KEATON, SHERROD L	
			ART UNIT 2174	PAPER NUMBER
			MAIL DATE 08/09/2007	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	Application No. 10/757,679	Applicant(s) GAO ET AL.	
	Examiner sherrod keaton	Art Unit 2174	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 06-01-07.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 30-55 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) \_\_\_\_\_ is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 6-01-07 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

This action is in response to the original filing of June 1, 2007. Claims 1-29 are canceled and 30-52 are pending and have been considered below:

### ***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 30, 40, 44-50, 51, and 52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shostak (5893125) in view of Rao (6085202).

**Claims 30, 40, 50, 51, 52:** Shostak discloses a device, method, a user interface and a program storage device readable by a computer, the program storage device tangibly embodying one or more programs of instructions executable by the computer to perform operations for controlling how data is presented in a tabular display, the operations comprising:

accepting user input to select a selectable element to implement a filter associated with the selectable element selected by the user to display a preset configuration of rows and columns (Column 8, Lines 11-34); and

presenting a display of the preset configuration of rows and columns to the user (Column 8, Lines 11-34).

Shostak does not explicitly disclose presenting to a user a display having a view configuration widget providing a graphical interface object having a plurality of selectable elements representing preconfigured filters for filtering columns and rows of a table for display according to predetermined criteria. However Rao discloses a method for producing a table image having focus and context regions and further discloses a system that allows the user to select the reordering of columns and rows (abstract; Column 6, Lines 14-20). Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention to allow filtering of rows and columns in Shostak as taught by Rao. One would have been motivated to allow filtering of rows and columns because it provides user effective presentations showing the user detailed information, which they selected.

**Claim 44:** Shostak and Rao disclose a device as in claim 40 above, wherein the providing a menu of row selections further comprises providing a selection for displaying all of the rows. Rao also discloses row and column sorting and reordering and further

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discloses selection for a set of data and row focusing (Column 18, Lines 7-20; Column 20, Lines 43-67).

**Claim 45:** Shostak and Rao disclose a device as in claim 40 above, wherein the providing a menu of row selections further comprises providing a selection for displaying a predetermined configuration of rows. Rao also discloses row and column sorting and reordering and further discloses selection for a set of data and row focusing (Column 18, Lines 7-20; Column 20, Lines 43-67).

**Claims 46:** Shostak and Rao disclose a device as in claim 40 above, wherein the providing a menu of row selections further comprises providing a selection for displaying data relative to a predetermined time. Rao also discloses row and column sorting and reordering and further discloses selection for a set of data, which can include time and row focusing (Column 18, Lines 7-20; Column 20, Lines 43-67).

**Claim 47:** Shostak and Rao disclose a device as in claim 40 above, wherein the providing a menu of column selections further comprises providing a selection for displaying all of the columns. Rao also discloses row and column sorting and reordering and further discloses selection for a set of data and column focusing (Column 18, Lines 7-20; Column 20, Lines 43-67).

**Claim 48:** Shostak and Rao disclose a device as in claim 40 above, wherein the providing a menu of column selections further comprises providing a selection for displaying only predetermined primary columns. Rao also discloses row and column sorting and reordering and further discloses selection for a set of data and column focusing (Column 18, Lines 7-20; Column 20, Lines 43-67).

**Claim 49:** Shostak, Rao and Luque disclose a device as in claim 40 above, wherein the providing a menu of column selections further comprises providing a custom selection for presenting predetermined columns. Rao also discloses row and column sorting and reordering and further discloses selection for a set of data, which allows for custom selection of data and column focusing (Column 18, Lines 7-20; Column 20, Lines 43-67).

3. Claims 31, 41, and 53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shostak (5893125) and Rao (6085202) as applied to claims 30, 40, 50, 51, and 52 above, and further in view of MandrakeSoft (Copyright 2003).

**Claims 31, 41 and 53:** Shostak and Rao disclose a device, a method, an user interface and program storage device as in claims 30, 40 and 52 above wherein the presenting to a user a display having a view configuration widget providing a graphical interface object having a plurality of selectable elements representing preconfigured filters for filtering columns and rows of a table for display according to predetermined criteria (Shostak: Column 8, lines 59-67) and the filtering provided by (Rao: abstract; Column 6, Lines 14-20), However Shostak and Rao do not explicitly disclose providing 2-by-2 matrix of buttons, wherein selection of a first of the buttons causing a subset of columns and a subset of rows of a table to be displayed, selection of a second of the buttons causing all columns and a subset of rows of the table to be displayed, selection of a third of the buttons causing a subset of columns and all rows of the table to be displayed and selection of a fourth of the buttons causing all columns and all rows of the table to be displayed. However MandrakeSoft discloses a 2 by 2 button for editing the display (Figure 1). Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention to include the 2 by 2 button in the modified Shostak taught by MandrakeSoft. One would have been motivated to have the 2 by 2 button to provide the user easy selection of preferred display.

4. Claim 42 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shostak (5893125), Rao (6085202) and MandrakeSoft (Copyright 2003) as applied to claim 41 above, and further in view of Luque(2004/0119749 A1).

**Claim 42:** Shostak, Rao and Mandrake disclose a method, an user interface and program storage device as in claim 41 above but do not explicitly disclose presenting to a user a display having a view configuration widget providing a graphical interface object having a plurality of selectable elements representing preconfigured filters for filtering columns and rows of a table for display according to predetermined criteria further comprises providing a drop-down menu, the drop-down menu having items selectable by a user for setting a view configuration. However Luque discloses a user interface for wafer data analysis and further discloses a drop down menu for selection of column and row dimensions (Page 5, Paragraph 61). Therefore it would have been obvious to having ordinary skill in the art at the time of the invention to include a drop down menu for selection in the modified Shostak as taught by Luque. One would have been motivated to have the drop down menu to improve user efficiency by providing a flowing display of possible selections.

5. Claims 32-39, 43, 54, and 55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shostak (5893125), and Rao (6085202) as applied to claims 30, 40, 50, 51, and 52 above, and further in view of Luque(2004/0119749 A1).



**Claims 32 and 54:** Shostak, Rao disclose a method, an user interface and program storage device as in claims 30 and 52 above but do not explicitly disclose presenting to a user a display having a view configuration widget providing a graphical interface object having a plurality of selectable elements representing preconfigured filters for filtering columns and rows of a table for display according to predetermined criteria further comprises providing a drop-down menu, the drop-down menu having items selectable by a user for setting a view configuration. However Luque discloses a user interface for wafer data analysis and further discloses a drop down menu for selection of column and row dimensions (Page 5, Paragraph 61). Therefore it would have been obvious to having ordinary skill in the art at the time of the invention to include a drop down menu for selection in the modified Shostak as taught by Luque. One would have been motivated to have the drop down menu to improve user efficiency by providing a flowing display of possible selections.

**Claims 33 and 55:** Shostak, Rao, and Luque disclose a device, a method, an user interface program storage device as in claims 32 and 52 above wherein the providing a drop-down menu further comprises providing a menu of row selections and a menu of column selections. Luque discloses a drop down menu for selection (Page 5, Paragraph 61) and Rao discloses row and column selection (abstract; Column 6, Lines 14-20).

Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention to include row and column selection in the drop down menu of the modified Shostak as taught by Rao and Luque. One would have been motivated to have the drop down menu to show selections to provide quick visual display of possible configurations thereby improving efficiency.

**Claim 34:** Shostak, Rao and Luque disclose a graphical interface and program storage device as in claim 33 above, wherein the providing a menu of row selections further comprises providing a selection for displaying all of the rows. Rao also discloses row and column sorting and reordering and further discloses selection for a set of data and row focusing (Column 18, Lines 7-20; Column 20, Lines 43-67).

**Claim 35:** Shostak, Rao and Luque disclose a graphical interface program storage device as in claim 33 above, wherein the providing a menu of row selections further comprises providing a selection for displaying a predetermined configuration of rows. Rao also discloses row and column sorting and reordering and further discloses selection for a set of data and row focusing (Column 18, Lines 7-20; Column 20, Lines 43-67).

**Claims 36:** Shostak, Rao and Luque disclose a graphical interface program storage

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device as in claim 33 above, wherein the providing a menu of row selections further comprises providing a selection for displaying data relative to a predetermined time.

Rao also discloses row and column sorting and reordering and further discloses selection for a set of data, which can include time and row focusing (Column 18, Lines 7-20; Column 20, Lines 43-67).

**Claim 37:** Shostak, Rao and Luque disclose a graphical interface program storage device as in claim 33 above, wherein the providing a menu of column selections further comprises providing a selection for displaying all of the columns. Rao also discloses row and column sorting and reordering and further discloses selection for a set of data and column focusing (Column 18, Lines 7-20; Column 20, Lines 43-67).

**Claim 38:** Shostak, Rao and Luque disclose a graphical interface program storage device as in claim 33 above, wherein the providing a menu of column selections further comprises providing a selection for displaying only predetermined primary columns. Rao also discloses row and column sorting and reordering and further discloses selection for a set of data and column focusing (Column 18, Lines 7-20; Column 20, Lines 43-67).

**Claim 39:** Shostak, Rao and Luque disclose a graphical interface program storage device as in claim 33 above, wherein the providing a menu of column selections further

comprises providing a custom selection for presenting predetermined columns. Rao also discloses row and column sorting and reordering and further discloses selection for a set of data, which allows for custom selection of data and column focusing (Column 18, Lines 7-20; Column 20, Lines 43-67).

**Claim 43:** Shostak and Rao disclose a method, an user interface and program storage device as in claim 40 above but do not explicitly disclose presenting to a user a display having a view configuration widget providing a graphical interface object having a plurality of selectable elements representing preconfigured filters for filtering columns and rows of a table for display according to predetermined criteria further comprising menu of row/column selection. However Luque discloses a user interface for wafer data analysis and further discloses a drop down menu for selection of column and row dimensions (Page 5, Paragraph 61). Therefore it would have been obvious to having ordinary skill in the art at the time of the invention to include menu for selection of rows and columns in the modified Shostak as taught by Luque. One would have been motivated to have the menu to improve user efficiency by providing a flowing display of possible selections.

### Response to Arguments

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**Argument of Claims:** Applicants arguments have been considered but are moot in view of new ground(s) of rejection, as necessitated by Applicants cancellation and rewriting of the Claims.

### **Conclusion**

6. Applicants amendments necessitated the new ground(s) of rejection presented in this office action. Accordingly, **THIS ACTION IS MADE FINAL**. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sherrod Keaton whose telephone number is 571) 270-

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1697. The examiner can normally be reached on Mon. thru Fri. and alternating Fri. off (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, KRISTINE KINCAID can be reached on 571-272-4063. The fax phone number for the organization where this application or proceeding is assigned is 571-273-3800.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SLK

7-31-07

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